



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,165	11/07/2001	Paer-Olof Funck	11709.46USWO	8653
23552	7590	08/02/2004	EXAMINER	
MERCHANT & GOULD PC P.O. BOX 2903 MINNEAPOLIS, MN 55402-0903			VAN PELT, BRADLEY J	
			ART UNIT	PAPER NUMBER
			3682	

DATE MAILED: 08/02/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/009,165	Applicant(s) FUNCK ET AL.	
	Examiner Bradley J Van Pelt	Art Unit 3682	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 24 May 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1, 2, 4-7, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Totaro (USPN 6,068,164) in view of Hyvonen et al. (USPN 5,813,496) and Shida (JP 5-170298).

Totaro discloses a system for manual lubrication of an apparatus wherein the lubricant is delivered by a lubricant gun (1) having a lubrication nozzle (8).

Totaro fails to show an apparatus having a plurality of lubrication points with a quantity of lubricant individually predetermined for each lubrication point, wherein the lubrication points of the apparatus are provided with an identification element, based upon which information on the quantity of lubricant that is to be administered to each individual point in each instance of lubrication is retrievable from a memory, and wherein, in the lubrication of a lubrication point of the apparatus the identification element associated with the lubrication point is detected by a lubrication point identification device arranged at the lubrication nozzle and information on the predetermined quantity of lubricant for the lubrication point identified is retrieved from the memory, following which the quantity of lubricant is administered to the lubrication point, and information on the lubrication carried out is stored in the memory;

information on quantities of lubricant for each point stored in the aforementioned memory is fed from that memory to a second mobile member and that after carrying out the lubrication round the information is transmitted from the second memory to the aforementioned memory;

list is retrieved from memory;

time from round is calculated from information stored in the memory;

measuring device, control element, lubrication identification device.

Hyvonen et al. show an apparatus having a plurality of lubrication points with a quantity of lubricant individually predetermined for each lubrication point.

Shida shows an identification element (13), based upon which information on the quantity of fluid that is to be administered to each individual point in each instance of filling is retrievable from a memory, and wherein, in the filling of a point of the apparatus the identification element associated with the point is detected by a point identification device (12) arranged at the nozzle and information on the predetermined quantity of fluid for the point identified is retrieved from the memory, and information on the filling carried out is stored in the memory;

information on quantities for each point stored in the aforementioned memory is fed from that memory to a second mobile member and that after carrying out the round the information is transmitted from the second memory to the aforementioned memory;

list is retrieved from memory;

time from round is calculated from information stored in the memory;

Art Unit: 3682

measuring device, control element, lubrication identification device (all inherent features of Shida).

To modify the apparatus of Totaro so as to provide an apparatus with a plurality of lubrication points would have been obvious to one of ordinary skill in the art at the time the invention was made in view of the teachings of Hyvonen et al. that such an arrangement improves functionality of the system.

To modify the apparatus of Totaro so as to provide and scanning and storage device would have been obvious to one of ordinary skill in the art at the time the invention was made in view of the teachings of Shida that such an arrangement improves monitoring amounts used.

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Totaro (USPN 6,068,164) in view of Hyvonen et al. (USPN 5,813,496) and Shida (JP 5-170298) as applied to claims 1, 2, 4-7, 9, and 10 above, and further in view of Elkin et al. (USPN 6,123,174).

The above reference combination shows all of the instantly claimed invention except an indication by audible means.

Elkin et al. disclose that on identification of an individual lubrication point the quantity of lubricant is shown that is to be administered (column 25, lines 12-17) to the lubricant point in question and that when the quantity has been administered the administration is shown and/or indicated by audible means (column 25, lines 24-27).

To modify the above reference combination so as to provide and audible means would have been obvious to one of ordinary skill in the art at the time the invention was made in view of the teachings of Elkin et al. that such an arrangement will indicate to user when operation is finished.

Art Unit: 3682

4. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Totaro (USPN 6,068,164) in view of Hyvonen et al. (USPN 5,813,496) and Shida (JP 5-170298) as applied to claims 1, 2, 4-7, 9 and 10 above, and further in view of Pollack (USPN 5,923,572).

The above reference combination shows all of the instantly claimed invention except communication by radio equipment.

Pollack shows communications equipment composed of radio communications equipment (38, 39, 71, 72).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the above reference combination with the radio communication, as taught by Pollack, for the purpose of a wireless transmission and getting rid of hardware.

5. Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Elkin et al. (USPN 6,123,174) in view of Hyvonen et al. (USPN 5,813,496) in view of Pollack.

Elkin et al. disclose a system for manual lubrication of a lubrication point with a quantity of lubricant individually predetermined for the lubrication point, wherein the lubrication point is provided with an individual identification information (column 16, lines 8-13) on the quantity (column 16, line 15) of lubricant that is to be administered to the lubrication point in each instance of lubrication is stored in a memory/measuring device and control element (column 16, lines 13-16), and wherein in the lubrication of a lubrication point the identification of the point is detected (bar code reader 216 see column 20, lines 30-40) and information on the predetermined quantity of lubricant for the lubrication point identified is retrieved from the memory (column 20 lines 25-29), following which the said quantity of lubricant is administered to the lubrication

Art Unit: 3682

point, information on the lubrication carried out and the time thereof is stored in the memory (column 26, lines 41-45).

Elkin et al. disclose that on identification of an individual lubrication point the quantity of lubricant is shown that is to be administered (column 25, lines 12-17) to the lubricant point in question and that when the quantity has been administered the administration is shown and/or indicated by audible means (column 25, lines 24-27).

Elkin et al. disclose that a list of lubrication points (engines and vehicles) visited during a lubrication round and the quantity of lubricant individually administered to each lubrication point is retrieved from the memory (column 26 lines 42-47).

Elkin et al. inherently disclose in that the time for a subsequent lubrication round information on the quantity of lubrication for the individual lubrication point is calculated from information stored in the memory. Elkin et al. disclose (column 16, lines 11-16) the database tracks which services have been preformed, thus it is calculated either by computer or user when next operation is due.

Re: claim 6, Elkin et al. disclose a device for manual lubrication of a lubrication point with a quantity of lubricant individually predetermined for each lubrication point, characterized in that the device comprises a combination of: an identification element unique to the lubrication point (bar code, see column 16, line 56) unique to the lubrication point at a lubrication point (engine in Elkin) and a measuring device (78), a reservoir (24) which is connected buy way of a pump device (76) and a measuring device (78) with indicating element (96) and a dispensing apparatus (166);

Elkin et al. fail to show an apparatus having a plurality of lubrication points with a quantity of lubricant individually predetermined for each lubrication point.

Elkin et al. fail to show in connection with a planned lubrication round information on the quantities of lubricant for each individual lubrication point stored in the aforementioned memory is fed from that memory to a second mobile memory and that after carrying out the lubrication round the said information is transmitted from the second memory to the aforementioned memory.

Elkin et al. do not disclose a lubricant gun with a lubricant reservoir which is connected by way of a pump device and the pump device connected to which control element is a memory containing stored data on the lubrication requirement of each individual lubrication point, with which memory the lubricant gun is designed to communicate for transfer to the control element of a lubricant quantity specification for each separate lubrication point and for feeding information stored in the control element on the lubrication carried out at the individual lubrication points, and a lubrication point identification device arranged in connection with the nozzle and designed, when the nozzle is connected to a lubrication point, to automatically identify the lubrication point in question and its lubrication requirement by means of the identification element together with means for storing in the memory data on the quantity of lubricant administered to the lubrication point in question in each lubrication operation;

the device comprises communication equipment designed to achieve communication between the control element and a fixed computer;

communications equipment composed of radio communications equipment;

the control element comprises memory elements designed to store the data and information for a time interval between the beginning and end of one operation round and that the memory elements are designed to communicate with the computer memory.

Re: claims 1 and 6, Hyvonen et al. renders obvious an apparatus having a plurality of lubrication points with a quantity of lubricant individually predetermined for each lubrication point.

Re: claim 2, Pollock (USPN 5,923,572) renders obvious a memory (56) being fed from that memory to a second mobile memory (30 mounted on hose is mobile) and that after carrying out an operation the information is transmitted from the second memory to the aforementioned memory (column 3, lines 60-65).

Pollock renders obvious a gun (12) with a reservoir (inherent) which is connected by way of a pump device (45) and a measuring device (44) to a nozzle (end portion of dispenser), a control element (24) connected to the measuring device and the pump device connected to which control element is a memory containing stored data (30) of an individual point, with which memory the gun is designed to communicate for transfer to the control element of a quantity specification (column 4, lines 4-17) for a lubrication point and for feeding information stored in the control element on the operation carried out at the individual point (also column 4, lines 4-17), and a point identification device (21) arranged in connection with the nozzle and designed, when the nozzle is connected to a point, to automatically identify the point in question and its requirement by means of the identification element together with means for storing in the memory data on the quantity administered to the point in question in each operation (column 3, lines 65-67, column 4, lines 1-3);

Re: claim 7, Pollack renders obvious the device comprises communication equipment designed to achieve communication between the control element and a fixed computer.

Re: claim 8, Pollack renders obvious communications equipment composed of radio communications equipment (38, 39, 71, 72).

Re: claim 9, Pollock renders obvious that the control element (24) comprises memory elements (84) designed to store the said data and information for a time interval between the beginning and end of one operation round and that the memory elements are designed to communicate with the computer memory (30).

To modify the apparatus of Elkin et al. so as to include an apparatus with a plurality of lubrication points with a quantity of lubricant individually determined for each lubrication point would have been obvious to one of ordinary skill in the art in view of the teachings of Hyvonen et al. that such an arrangement improves overall bearing lives for rollers.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the dispensing apparatus of Elkin et al. with the gun dispenser, and the control element to communicate with an identification point, as taught by Pollack, for the purpose of eliminating need for operator input, which reduces the labor cost.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the communications apparatus of Elkin et al. with the radio communication, as taught by Pollack, for the purpose of a wireless transmission, which decreases the overall response time.

It would have been obvious to one of ordinary skill in the art at the time, of the invention to modify the apparatus of Elkin et al. to utilize memory storage and communication, as taught

by Pollack, for the purpose of tracking the quantity dispensed of the lubrication apparatus to accurately calculate total sales, further maximizing profits.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the memory transmitting device of Elton et al. by adding a second mobile memory, as taught by Pollock, for the purpose of eliminating need for operator input, which reduces the labor cost.

Response to Arguments

6. Applicant's arguments filed May 24, 2004 have been fully considered but they are not persuasive.

The applicant argues that Hyvonen teaches away from the instant invention, because the reference mentions there are disadvantages to manual lubrication. Hyvonen does not teach away from the instant invention, because the instant invention is technically not a manual device. The instant invention is an automated device. If the applicant distinguishes the instant invention as being a manual operation, then anything that requires any operator input would be considered manual. Clearly this is not the case and Hyvonen does not teach away from the instant invention.

The applicant then argues that Totaro teaches away from devices that require "auxiliary equipment." It is submitted that one of ordinary skill in the art would look to Totaro for the general teaching of a lubricant nozzle and the reference does not teach away from the instant invention.

The applicant argues that since Shida is directed to an automobile gasoline pump there would be no motivation to combine the reference with either of the lubrication systems disclosed

Art Unit: 3682

by Totaro and Hyvonon. All of the prior art and the instant invention are drawn to fluid distribution and one having ordinary skill in the art would look to the teachings of Shida to implement a lubrication tracking distribution system.

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bradley J Van Pelt whose telephone number is 703.305.8176.


The examiner can normally be reached on M-Th 7:00-4:30, 2nd F 7:00-3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A Bucci can be reached on 703.308.3668. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 3682

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BJVP 


DAVID A. BUCCA
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600